Monday, 3/6/2006 1:48:19 PM

Kim Johnston

Process Sheet

Customer **Job Number** : CU-DAR001 Dart Helicopters Services

: 26058

Estimate Number

: 10298

P.O. Number

This Issue

: NA

: 3/6/2006

: NC

: NIA : 25171

: PURCHASED PARTS

Part Number

Drawing Name

: D25773

Drawing Number

: D2577 REV E

...: WEARPLATE

Project Number Drawing Revision

: N/A

Material

: NIA

Due Date

: 3/31/2006

Written By

Prsht Rev.

First Issue

Previous Run

Checked & Approved By

Comment

: Est:

S.O. No. : N /K

Re-format; Incorporated D2577-101/-13 KJ/

RF

Additional Product

Job Number:



Seq. #:

Machine Or Operation:

Description:

1.0

PG

c206/03/07

PURCHASING

Comment: PURCHASING

Issue P/O: _7.39

Email or Ship DXF file to vendor

Laser Cut per Dwg D2577 flat pattern D2577-101

Material release note required

D25773F 2.0

Wearplate Aft



Comment: Qty.: 1.0000 U(s)/Unit

Total:

50.0000 U(s)



PACKAGING 1

PACKAGING RESOURCE #1







Receive & Inspect For Transit Damage

Ensure material release note is attached

4.0 QC6 DIMENSIONAL CHECK



Comment: DIMENSIONAL CHECK

Inspect dimensions per template D2577-101T

5.0

3.0

Comment: SMALL & MEDIUM FAB RESOURCE 1

Deburr



Dart Aerospace Ltd

DATE STEP PROCEDURE CHANGE By Date Qty Chief En		ER CHANGES		
	PROCEDURE (В	By Date Q	Approval Chief Eng / Prod Mgr Approv QC Inspec
		-		

		QA: N/C Closed:	Date:
NCR:	WORK ORDER NON-CONFORM		

NCR:	ICR: WORK ORDER NON-CONFORMANCE (NCR)									
		Descrir	ation of NC	Corrective Action Section B		Verification	Varification	Ammoual		
DATE	STEP	STEP Description of NC Section A		Initial Chief Eng	Initial Action Description Sign &		Section C	Approval Chief Eng	Approval QC Inspecto	
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				-3-						
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NOTE: Date & initial all entries

Monday, 3/6/2006 1:48:19 PM Date: User: Kim Johnston **Process Sheet** Drawing Name: WEARPLATE Customer: CU-DAR001 Dart Helicopters Services Job Number: 26058 Part Number: D25773 Job Number: Sea. #: Machine Or Operation: Description: NC BRAKE BRAKE NC 6.0 Comment: NC BRAKE 04.04.20 1-Form on brake as per Dwg D2577 using DT8155 and DT8179 2-Identify as D2577-3 INSPECT WORK TO CURRENT STEP 7.0 QC5 Comment: INSPECT WORK TO CURRENT STEP LARGE FAB LARGE FABRICATION RESOURCE 1 8.0 Comment: LARGE FABRICATION RESOURCE 1 Weld hard surface using DT8308A & DT8308B as per Dwg D2577 Description in 100 237 Batch Qty M. F. 06.05.03 M100452 A/R 7560 Hardcoat Rod VISUAL WELDING INSPECTION 9.0 QC9 Comment: VISUAL WELDING INSPECTION 10.0 POWDER COATING POWDER COATING Comment: POWDER COATING Powder Coat Grey Sandtex (Ref: 4.3.5.6) as per QSI 005 4.3 11.0 QC3 INSPECT POWDER COAT/CHEMICAL CONVERSION 06 05 08 Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION 12.0 PACKAGING RESOURCE #1 Comment: PACKAGING RESOURCE #1 Identify and Stock Location: DOCUMENT CONTROL 13.0 Comment: DOCUMENT 06/05/08 Inspection Level 21 U 06-05-0

Form: rprocess

Page 2

Dart Aerospace Lt	d
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W/O:		WORK ORDER	CHANGES				
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approva QC Inspecto
							1
						13.4	

Part No:	PAR #:	_ Fault Category:	NCR: Yes No	DQA:	Date:
<u> </u>			QA: N/C	losed:	Date:

NCR:		W	ORK OR	DER NON-CONFORMANCE	(NCR)			
5475	0.750	Description of NC		Corrective Action Section B			Annroval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	QC Inspector
Œ°O.≳.⊙}	8	He hard continue the hard continue to have enough penetration into the wear plate, cousing some of the hard continue to break off.		reweld the hond cont As per Q 51 004 & Dug 2577 Rev. E.	m.F.			106050
					10	,	·	
				7		·		·

NOTE: Date & initial all entries

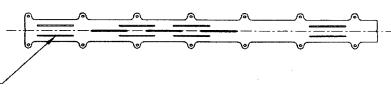
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W/O:			WC	ORK ORDER CHA	ANGES	•			
DATE	STEP	PRC	CEDURE CHAI	NGE		Ву	Date Qt	y Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	•	PAR #:	Fault Cateç	gory:	NC	R: Yes N	lo DQA :	Date: _	
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NCR:		-, V	VORK ORDE	ER NON-CONFO	RMANCE	(NCR)			
D.4.T.F.	0750	Description of NC	(Corrective Action	Section B		Verificatio	n Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Descript Chief Eng		Sign & Date	Section C	Chief Eng	QC Inspector
					-4-				
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		Description of NC		Corrective Action Section B		Verification	Annaval	Ammrayal
DATE STEP	STEP	Section A	Section A Initial Action Description Sign & Chief Eng Chief Eng Date	Section C	Approval Chief Eng	Approval QC Inspector		
						,		

NOTE: Date & initial all entries

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7560 HARDCOAT WELD 4.0 LONG 0.063 TO 0.125 HIGH (TYP. 11 PLS.) WELD AFTER BENDING AS ILLUSTRATED PER DT8308



D2577-1 & D2577-3 WEARSHOE

MAKE FROM D2577-11 AND D2577-13 RESPECTIVELY POWDER COAT GREY (4.3.5.6) PER DART QSI 005 4.3 TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED



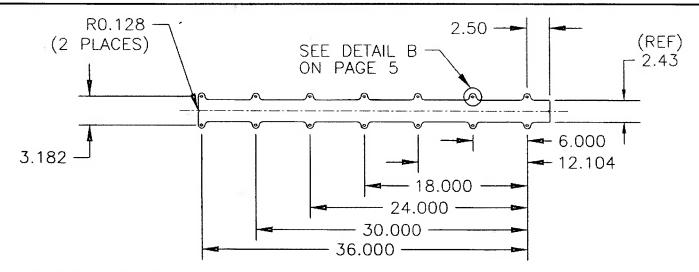




D2941-300 SHWAYDER WEAPADS (8 PLACES) A SHOP COPY	SECTI SCA R2.00 0.12 0.13 0.10	ON A-A LE 1:5 D2941-300 (REF) REMOVE POWDER COAT FROM THESE SURFACES
¥40 Y40		3011/1023

D2577-21 & D2577-23 WEARSHOE MAKE FROM D2577-11 AND D2577-13 RESPECTIVELY POWDER COAT GREY (4.3.5.6) PER DART QSI 005 4.3 TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

	DESIGN		DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
	CHECKED		APPROVED	DRAWING NO. REV. E
	- €		t	D2577 SHEET 1 OF 5
	3TAG			TITLE SCALE
L	00.09.22	.22		WEARSHOE
	Þ		96.09.16	NEW ISSUE
	B		96.12.04	ADD HARDCOAT WELDS
	C		97.05.30	CHANGE HOLES TO OBROUNDS
	D		98.08.17	CORRECTED DIMENSIONS ON -1 & -3
	М		00.09.22	ADD D2577-101/-11/-13 INCORPORATE DE09176



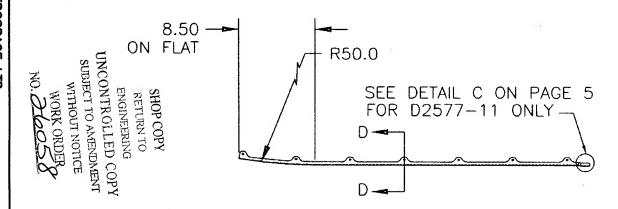
D2577-101 FLAT PATTERN

BREAK ALL SHARP CORNERS 0.010 TO 0.020

MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570

SERIES STEEL 0.063 THICK

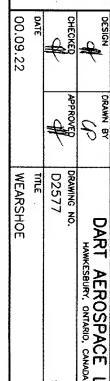
TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED



<u>D2577-11 & D2577-13 LONGITUDINAL BEND</u>
MAKE FROM D2577-101
TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED



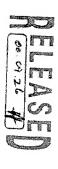




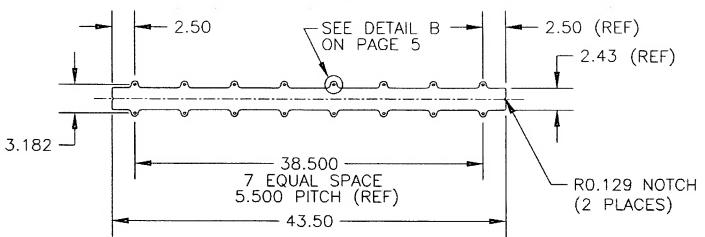
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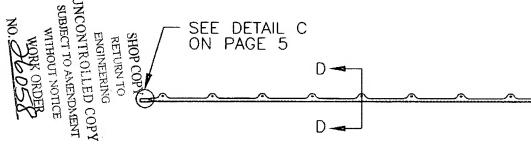
OF 5



D2577-5 FLAT PATTERN



D2577-5 LONGITUDINAL BEND



BREAK ALL SHARP CORNERS 0.010 TO 0.020

AISI 1010-1025 OR ASTM A36/A366/A569/A570

SERIES STEEL 0.063 THICK

POWDER COAT GREY (4.3.5.6) PER DART QSI 005 4.3 TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED



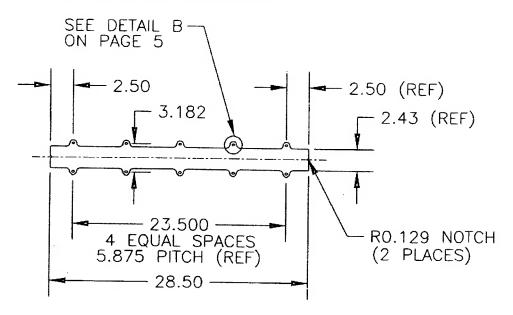


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D2577 SHEET	Z.	4
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HAWKESBURY, ONTARIO, CANADA	4	ŧ
DART AEROSPACE LTD	DRAWN BY	NSISS

REV. E

D2577-7 FLAT PATTERN



D2577-7 LONGITUDINAL BEND

SEE DETAIL C ON PAGE 5 D -

D2577-7 WEARSHOE

UNCONTROLLED COPY SUBJECT TO AMENDMENT

ENGINEERING RETURN TO

SHOP COPY

BREAK ALL SHARP CORNERS 0.010 TO 0.020

MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570

SERIES STEEL 0.063 THICK

FINISH: POWDER COAT GREY (4.3.5.6) PER DART QSI 005 4.3 TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED



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#	C	D2577 SHEET 4 OF 5
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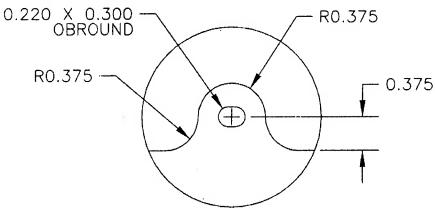




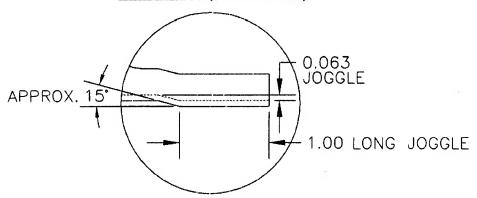
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#	H	D2577	SHEET	5 OF	5
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DETAIL B (SCALE 1:1)

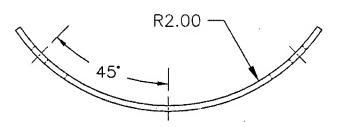




DETAIL C (SCALE 1:1)



SECTION D-D (SCALE 1:1)



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PO439

New Zestand Steef Limited Glanbrook, South Auckland Postat: Private Bag 92/21, Auckland, New Zestand Tetephones: (09) 375 6989 / 375 8111 Auckland (99) 236 8089 / 225 3535 Waldau Fax: (09) 378 6959

TEST CERTIFICATE

R4 17407519

Rei	usuce l	1/12/	20

CUSTOMER	Wilkhoon	- 1		€.E	SC(716	en	Τα	21	سيسيد		SPEC	FICA	now	AS	THEA	1005 C	S Type A		\searrow $+$			CERTIFIC	ATE No 7	C122432
CUSTOMER OM	90-21N-963	1 .5									(PROE	UCT		CR	A W	IDE CO	HL.		<i>.</i>			PAGE		1 # 1
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					(HEM	ICAL C	OMPO	SIFIC	N PER	CENT							ME	CHANICAL	TESTS (TE	ST SPECIF	CATION -	ASTMAJ	70)
PACK NUMBER	HEAT No	С	Si ×100	Mn	P	8	Си	Ni	Cr x10	Mo 000	٧	NB	71	Al	B x190		CE()	BEND 180°	YIELD	T.S.	%ELONG G.L.=	HARDNESS	()	LENGTH (feet)	
R9-470783-00	645502	6	1	20	14	21	11	17	21	2	6	1	1	<u> </u>	:		 	Good				57		1532	
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R9-470794-00	645701	5	TR	19	11	15		17	23	. 3	- 4	1	1			1		Good				53		1444	
R9-471202-00	645502	6.		20	14	21	11	17	21	2	6	1	1				1.	Good				57		1631	
R9-471203-00	645502	6	. 1	20	14	21	11	17	21	2	6	1						Good			1	57		1604	
R9-471204-06	645502	6		20	14	21	11	17	21	2	: 6	1	. 1			1 -		Good	30			58		1604	
R9-471205-00	645502		1	29	14	21	11	17	21	2		1	1		14.5%	7.		Good				58	7.70.7	1539	

YELD	GAUGE LEN	GTH (G.L.)		PLASTIC ST	TRAIN RATIO (r)	IMPACT TEST	(C)=5mm x 5mm	CARBON EQUIVALENT VALUE (CE)		-
(A)=0.2% PROOF STRESS (B)=LOWER YIELD STRESS	(A)=200mm (B)=50mm	(C)=80mm (D)=5.65 7 So	(E)=2" (F)=8"	(A)=0 (B)=190	(C)=r45 (D)=(r0+r90+2r45) / 4	(A)=10mm x 10mm (B)=7.5mm x 10mm		(A)=C+Mn/6 (B)=C+Mn/6+(Cr+V+Mo)/5+(Cu+Ni)/15	(C)=C+Mn/6+Si/24 (D)=	

WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN TESTED AND INSPECTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE ABOVE SPECIFICATION

APPROVED ANTISH MISTS

	grafia.	